

SAVANNAH RIVER BASIN
2004 Water Year

021989791 LITTLE BACK RIVER AT FISH & WILDLIFE DOCK, NEAR LIMEHOUSE, SC

LOCATION.—Lat 32°10'14", long 81°07'06" referenced to North American Datum (NAD) of 1927, Jasper County, SC, Hydrologic Unit 03060109, on right dock headwall on the left bank at US Fish and Wildlife Dock at the headquarters of the Savannah National Wildlife Refuge, 0.3 miles north of US 17, and 4.1 miles southwest of Limehouse, SC.

DRAINAGE AREA.—Not determined.

COOPERATION.—U.S. Army Corps of Engineers, Savannah District.

PERIOD OF RECORD.—September 1989 to current year.

CONTINUOUS WATER-QUALITY RECORDS

INSTRUMENTATION.—Satellite telemetry with a continuous water-quality monitor.

PERIOD OF DAILY RECORD.—

SPECIFIC CONDUCTANCE: September 1989 to current year.

WATER TEMPERATURE: October 1999 to current year.

REMARKS.—Records good.

EXTREMES FOR PERIOD OF DAILY RECORD.—

SPECIFIC CONDUCTANCE: Maximum recorded, 15,500 microsiemens, August 7, 2002; minimum recorded, 40 microsiemens, October 13, 1994, February 26, 27, 1995, February 17, 1998.

WATER TEMPERATURE: Maximum recorded, 31.6 °C, July 20, 2002; minimum recorded, 5.0 °C, January 4, 2001.

EXTREMES FOR CURRENT YEAR.—

SPECIFIC CONDUCTANCE: Maximum recorded, 9,290 microsiemens, June 2; minimum recorded, 85 microsiemens, March 1.

WATER TEMPERATURE: Maximum recorded, 29.7 °C, June 20; minimum recorded, 8.3 °C, February 28.

U.S. DEPARTMENT OF THE INTERIOR - U.S. GEOLOGICAL SURVEY - WATER RESOURCES

STATION NUMBER 021989791 LITTLE BACK RIVER AT F&W DOCK, NEAR LIMEHOUSE, SC SOURCE AGENCY USGS STATE 45 COUNTY 053
 LATITUDE 321014 LONGITUDE 0810706 NAD27 DATUM 0.00 NGVD29

Specific conductance, water, unfiltered, microsiemens per centimeter at 25 degrees Celsius
 WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	2030	295	557	961	242	371	467	168	289	106	95	100
2	2250	283	523	787	239	370	773	170	374	180	98	112
3	3010	312	708	1350	260	465	977	180	489	204	99	120
4	1460	373	631	695	308	478	1640	332	739	359	104	166
5	1100	448	669	698	350	521	975	273	598	423	114	211
6	1600	494	844	782	385	547	752	192	451	468	129	218
7	1700	652	968	708	403	544	1020	184	503	515	119	258
8	1440	699	966	1290	396	603	872	265	566	---	---	---
9	1130	690	901	1500	425	614	816	300	554	---	---	---
10	1100	595	790	2180	357	623	1260	291	507	---	---	---
11	866	469	652	1400	372	595	486	178	318	---	---	---
12	1050	421	608	845	331	581	431	142	248	---	---	---
13	770	412	576	798	199	437	605	131	269	---	---	---
14	727	348	521	950	192	440	457	135	225	---	---	---
15	599	276	432	1140	212	465	222	115	153	---	---	---
16	602	203	349	886	207	419	240	105	134	---	---	---
17	479	208	298	968	211	466	356	106	150	---	---	---
18	417	189	263	1920	226	736	400	109	165	---	---	---
19	638	188	320	2050	266	929	500	116	191	---	---	---
20	1140	205	471	2690	336	1050	334	114	174	---	---	---
21	1250	290	646	4100	771	1590	886	124	238	---	---	---
22	1950	410	902	4620	1050	1690	670	133	216	---	---	---
23	6010	584	1890	4910	904	1630	491	120	181	---	---	---
24	4880	1200	2090	4570	764	1430	238	116	141	---	---	---
25	5540	1000	1940	3150	615	1070	148	107	123	---	---	---
26	4190	850	1520	3030	533	965	134	103	115	---	---	---
27	3490	717	1270	2600	480	818	128	105	114	---	---	---
28	2860	580	1040	1050	370	546	132	114	122	---	---	---
29	907	414	579	452	213	329	132	102	117	---	---	---
30	1520	317	510	402	184	278	118	100	106	---	---	---
31	1170	261	413	---	---	---	114	96	103	---	---	---
MONTH	6010	188	802	4910	184	720	1640	96	280	---	---	---

U.S. DEPARTMENT OF THE INTERIOR - U.S. GEOLOGICAL SURVEY - WATER RESOURCES

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 LATITUDE 321014 LONGITUDE 0810706 NAD27 DATUM 0.00 NGVD29

Specific conductance, water, unfiltered, microsiemens per centimeter at 25 degrees Celsius
 WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	---	---	---	128	85	95	936	154	418	1860	420	1050
2	---	---	---	122	89	98	1450	201	719	2610	634	1300
3	---	---	---	149	92	108	2210	398	1250	2360	725	1260
4	---	---	---	142	92	111	2210	700	1270	4400	740	1400
5	---	---	---	137	92	108	2680	728	1330	3610	750	1220
6	---	---	---	153	97	121	3620	771	1200	2750	586	1020
7	---	---	---	155	103	123	3440	630	998	2730	456	819
8	---	---	---	159	107	128	2270	476	777	2000	391	654
9	---	---	---	176	113	132	1310	389	603	1630	361	588
10	---	---	---	155	110	124	1470	351	555	1060	344	496
11	---	---	---	151	112	128	642	289	450	709	333	472
12	---	---	---	147	114	128	522	186	348	614	342	479
13	---	---	---	210	126	149	404	180	253	601	326	462
14	---	---	---	229	118	161	373	181	268	564	293	415
15	---	---	---	212	123	154	1360	206	605	567	287	410
16	---	---	---	220	128	163	1730	443	926	643	273	427
17	---	---	---	248	139	185	1520	670	1020	796	298	459
18	---	---	---	414	156	264	1160	560	866	655	313	454
19	---	---	---	298	183	242	882	390	643	685	290	433
20	301	128	160	438	158	223	579	261	422	562	264	387
21	155	115	136	222	124	154	482	214	324	662	245	389
22	145	113	128	146	108	125	467	208	325	798	249	425
23	145	112	125	134	102	113	550	186	336	757	231	425
24	145	116	130	134	108	118	542	172	296	756	218	414
25	196	118	141	150	120	131	542	176	314	860	204	437
26	1070	110	213	167	133	145	546	153	283	1020	188	466
27	148	89	105	317	136	168	553	156	278	1360	194	547
28	101	86	92	290	124	171	804	152	386	1590	292	785
29	144	86	94	687	128	246	1510	174	587	3620	384	1190
30	---	---	---	701	131	294	1710	260	775	6610	418	2190
31	---	---	---	632	145	303	---	---	---	6590	1330	2600
MONTH	---	---	---	701	85	158	3620	152	628	6610	188	777

U.S. DEPARTMENT OF THE INTERIOR - U.S. GEOLOGICAL SURVEY - WATER RESOURCES

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 LATITUDE 321014 LONGITUDE 0810706 NAD27 DATUM 0.00 NGVD29

Specific conductance, water, unfiltered, microsiemens per centimeter at 25 degrees Celsius
 WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7070	1140	2640	---	---	---	---	---	---	480	257	353
2	9290	1240	2930	---	---	---	---	---	---	396	212	291
3	8860	1340	2840	---	---	---	---	---	---	382	195	272
4	7000	1240	2490	---	---	---	---	---	---	368	162	244
5	6890	1090	2050	---	---	---	---	---	---	519	147	265
6	5540	966	1800	---	---	---	---	---	---	762	150	267
7	4210	853	1600	---	---	---	---	---	---	208	141	174
8	2930	826	1370	---	---	---	---	---	---	186	128	145
9	1970	770	1220	---	---	---	---	---	---	209	120	146
10	1840	716	1150	---	---	---	---	---	---	334	119	191
11	1460	554	979	---	---	---	---	---	---	466	121	251
12	1250	384	788	---	---	---	---	---	---	985	140	323
13	1270	376	736	---	---	---	---	---	---	496	149	298
14	646	204	433	---	---	---	---	---	---	381	163	242
15	447	204	297	---	---	---	---	---	---	254	150	192
16	420	203	287	---	---	---	---	---	---	279	134	163
17	429	200	288	---	---	---	---	---	---	279	125	147
18	573	204	346	---	---	---	---	---	---	192	117	140
19	1160	224	453	---	---	---	---	---	---	168	111	128
20	2290	244	647	---	---	---	---	---	---	276	102	128
21	2210	350	774	---	---	---	---	---	---	692	99	162
22	1250	287	574	---	---	---	---	---	---	260	102	125
23	922	184	389	---	---	---	---	---	---	133	104	115
24	722	174	341	---	---	---	---	---	---	157	106	119
25	680	182	361	---	---	---	---	---	---	540	106	152
26	---	---	---	---	---	---	---	---	---	523	114	166
27	---	---	---	---	---	---	---	---	---	262	122	149
28	---	---	---	---	---	---	4310	698	1350	159	123	137
29	---	---	---	---	---	---	1990	590	919	167	140	154
30	---	---	---	---	---	---	982	436	616	183	149	163
31	---	---	---	---	---	---	639	334	454	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	985	99	193

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 LATITUDE 321014 LONGITUDE 0810706 NAD27 DATUM 0.00 NGVD29

Temperature, water, degrees Celsius
 WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	22.6	20.9	21.6	20.4	19.6	20.0	13.9	13.1	13.6	10.5	9.8	10.2
2	22.5	21.1	21.6	20.2	19.4	19.8	13.8	12.9	13.3	10.4	9.8	10.2
3	22.1	20.5	21.2	20.1	19.5	19.8	13.2	12.3	12.7	11.0	10.3	10.6
4	21.8	20.3	21.0	21.3	20.0	20.6	12.7	12.2	12.4	11.8	10.7	11.2
5	22.3	21.0	21.6	22.1	21.1	21.6	12.4	12.1	12.3	13.3	11.6	12.3
6	22.6	21.8	22.2	22.7	21.8	22.2	12.1	11.5	11.8	13.3	12.1	12.8
7	22.3	21.9	22.1	23.0	22.3	22.6	11.5	11.0	11.3	12.1	10.9	11.3
8	22.5	21.7	22.1	22.8	22.1	22.5	11.1	10.6	10.9	---	---	---
9	22.4	22.0	22.2	22.1	19.8	20.8	11.2	10.6	10.9	---	---	---
10	22.6	21.9	22.3	19.8	18.3	18.7	11.9	11.1	11.5	---	---	---
11	22.5	22.1	22.3	18.6	17.7	18.2	11.8	11.0	11.3	---	---	---
12	22.6	21.9	22.2	19.4	18.3	18.8	11.3	10.6	11.0	---	---	---
13	22.7	21.9	22.3	19.3	18.2	18.9	11.8	11.0	11.3	---	---	---
14	23.1	22.4	22.7	18.2	17.2	17.6	11.9	11.3	11.7	---	---	---
15	22.9	21.8	22.2	17.4	16.6	17.0	11.5	10.7	11.0	---	---	---
16	21.8	20.9	21.4	17.7	16.6	17.1	11.3	10.8	11.1	---	---	---
17	21.6	21.0	21.3	17.9	16.8	17.3	11.3	10.6	11.1	---	---	---
18	21.6	20.9	21.2	18.4	17.4	17.9	10.8	10.1	10.4	---	---	---
19	21.4	20.5	21.0	18.7	18.0	18.5	10.5	9.9	10.2	---	---	---
20	21.4	20.4	20.9	18.2	17.3	17.8	10.0	9.2	9.5	---	---	---
21	21.6	20.6	21.1	17.7	16.9	17.3	9.5	8.6	9.1	---	---	---
22	21.5	20.7	21.1	17.4	16.7	17.0	9.1	8.5	8.8	---	---	---
23	21.1	20.4	20.7	17.2	16.4	16.8	10.1	8.8	9.4	---	---	---
24	20.9	19.5	20.1	17.4	16.7	17.1	11.2	9.9	10.6	---	---	---
25	20.6	19.5	20.0	17.1	15.8	16.4	11.1	9.7	10.2	---	---	---
26	21.0	20.1	20.6	16.4	15.1	15.7	9.7	8.8	9.3	---	---	---
27	21.3	20.8	21.1	16.6	15.5	16.0	9.4	8.5	9.0	---	---	---
28	21.2	20.6	21.0	16.8	15.9	16.5	9.4	8.5	9.0	---	---	---
29	20.8	19.9	20.3	15.9	13.9	14.7	9.8	9.1	9.5	---	---	---
30	20.6	19.5	20.0	14.1	13.3	13.7	10.6	9.8	10.2	---	---	---
31	20.4	19.4	19.9	---	---	---	10.6	9.7	10.2	---	---	---
MONTH	23.1	19.4	21.3	23.0	13.3	18.3	13.9	8.5	10.8	---	---	---

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 LATITUDE 321014 LONGITUDE 0810706 NAD27 DATUM 0.00 NGVD29

Temperature, water, degrees Celsius
 WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	9.9	9.0	9.6	17.8	16.8	17.3	23.2	22.3	22.7
2	---	---	---	11.3	9.6	10.3	17.6	16.4	17.1	23.6	22.7	23.0
3	---	---	---	12.6	10.7	11.5	17.9	16.6	17.2	23.2	22.6	22.9
4	---	---	---	13.8	12.1	12.8	17.7	16.7	17.2	22.6	21.6	22.1
5	---	---	---	15.7	13.6	14.4	17.6	16.4	17.0	22.6	20.4	21.5
6	---	---	---	16.8	15.3	15.9	17.6	16.3	17.0	22.9	20.9	21.9
7	---	---	---	17.6	15.9	16.5	17.6	16.4	17.1	23.7	21.9	22.8
8	---	---	---	17.1	15.7	16.1	18.2	17.0	17.5	24.2	22.7	23.6
9	---	---	---	15.9	14.8	15.4	18.8	17.5	18.2	24.6	23.2	24.0
10	---	---	---	15.2	14.0	14.5	19.4	18.1	18.7	24.5	23.2	23.9
11	---	---	---	14.2	13.0	13.7	20.3	18.9	19.6	24.3	23.4	23.8
12	---	---	---	14.1	13.0	13.6	20.7	19.8	20.2	24.1	23.3	23.7
13	---	---	---	14.3	13.0	13.7	21.2	20.2	20.6	24.9	23.5	24.2
14	---	---	---	14.6	13.3	14.0	20.3	18.1	18.8	25.5	24.3	24.8
15	---	---	---	15.4	14.1	14.8	19.3	17.7	18.6	25.8	24.7	25.1
16	---	---	---	15.8	15.0	15.4	20.0	18.5	19.1	25.7	24.8	25.2
17	---	---	---	16.0	15.1	15.6	20.4	19.0	19.6	26.0	24.8	25.3
18	---	---	---	16.4	15.3	15.8	21.0	19.5	20.1	25.5	24.8	25.1
19	---	---	---	17.5	15.8	16.6	21.4	20.0	20.7	25.8	24.5	25.1
20	11.4	9.8	10.4	17.6	16.6	17.1	21.5	20.4	20.9	26.6	25.1	25.8
21	12.8	10.9	11.6	17.8	16.6	17.0	21.7	20.7	21.2	27.0	25.8	26.4
22	12.3	11.4	11.8	17.0	15.4	15.8	22.0	20.8	21.4	27.3	26.2	26.8
23	12.3	11.3	11.8	15.4	14.0	14.7	22.7	21.4	22.1	27.9	26.7	27.3
24	13.1	11.9	12.5	15.5	14.0	14.7	23.4	22.1	22.7	28.2	26.6	27.4
25	13.0	11.7	12.4	15.9	14.9	15.4	23.6	22.4	23.1	28.8	27.0	27.7
26	11.8	9.6	10.4	16.8	15.4	16.0	23.8	22.9	23.4	28.6	27.1	27.9
27	9.6	8.7	9.1	17.7	16.0	16.8	23.8	22.8	23.3	28.6	27.1	27.9
28	9.4	8.3	8.8	18.7	16.6	17.5	23.4	22.2	22.8	28.6	27.4	28.0
29	10.1	8.4	9.2	18.6	17.1	17.8	23.2	22.3	22.8	29.0	27.7	28.3
30	---	---	---	17.8	17.1	17.5	22.8	22.4	22.6	29.3	28.1	28.7
31	---	---	---	17.9	17.0	17.5	---	---	---	29.0	28.2	28.6
MONTH	---	---	---	18.7	9.0	15.1	23.8	16.3	19.9	29.3	20.4	25.2

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Temperature, water, degrees Celsius
 WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	28.5	27.7	28.1	---	---	---	---	---	---	27.5	26.4	27.1
2	28.7	27.3	28.0	---	---	---	---	---	---	27.5	26.7	27.0
3	28.8	27.5	28.2	---	---	---	---	---	---	27.2	26.0	26.6
4	28.5	27.2	27.7	---	---	---	---	---	---	27.1	26.0	26.6
5	28.0	26.5	27.3	---	---	---	---	---	---	26.7	26.1	26.4
6	28.0	26.6	27.3	---	---	---	---	---	---	26.3	25.5	25.9
7	27.8	26.4	27.3	---	---	---	---	---	---	25.6	25.2	25.5
8	28.1	26.9	27.5	---	---	---	---	---	---	25.9	25.1	25.5
9	27.9	27.0	27.4	---	---	---	---	---	---	26.3	24.8	25.5
10	28.1	26.7	27.5	---	---	---	---	---	---	25.9	25.2	25.6
11	28.6	27.3	28.0	---	---	---	---	---	---	25.5	24.9	25.2
12	29.6	28.1	28.8	---	---	---	---	---	---	25.0	24.4	24.7
13	29.4	27.1	28.8	---	---	---	---	---	---	24.6	24.0	24.3
14	27.1	25.9	26.5	---	---	---	---	---	---	24.1	23.6	23.8
15	26.7	25.6	26.1	---	---	---	---	---	---	24.2	23.8	24.0
16	26.9	26.3	26.5	---	---	---	---	---	---	24.6	23.9	24.2
17	27.5	26.3	26.8	---	---	---	---	---	---	25.2	24.4	24.8
18	28.4	27.0	27.7	---	---	---	---	---	---	25.3	24.0	24.6
19	29.3	28.0	28.5	---	---	---	---	---	---	24.8	23.5	24.1
20	29.7	28.8	29.2	---	---	---	---	---	---	23.7	22.3	22.8
21	29.5	28.5	28.9	---	---	---	---	---	---	22.5	21.6	22.1
22	28.7	27.5	28.1	---	---	---	---	---	---	22.8	21.7	22.3
23	28.3	27.4	27.9	---	---	---	---	---	---	22.7	21.7	22.3
24	28.5	27.1	27.9	---	---	---	---	---	---	22.9	22.0	22.5
25	28.7	27.3	28.0	---	---	---	---	---	---	23.0	22.5	22.7
26	---	---	---	---	---	---	---	---	---	22.9	22.6	22.7
27	---	---	---	---	---	---	---	---	---	23.7	22.9	23.3
28	---	---	---	---	---	---	28.2	27.5	27.8	24.4	23.2	23.8
29	---	---	---	---	---	---	28.0	26.8	27.3	24.6	23.8	24.3
30	---	---	---	---	---	---	28.0	27.0	27.5	24.9	24.2	24.6
31	---	---	---	---	---	---	27.8	27.0	27.4	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	27.5	21.6	24.5